

A magnet device which includes two sets of static magnetic field generation sources, each being constituted by current carrying means disposed concentrically in order to generate a uniform magnetic field directing in a first direction being provided with at least four current carrying means, and in which when assuming a crossing point of a first axis which is in parallel with the first direction and passes substantially the center of the current carrying means and a second axis which crosses the first axis orthogonally and locates at substantially the equal distance from the two sets of the static magnetic field generation sources as a first point and further assuming a first straight line contained on a first plane defined by the first axis, the second axis and the first point and passing through the first point, the current carrying means are disposed in such a manner that, when geometrical centers of cross sections of the current carrying means on the first plane are projected on the first straight line, the current carrying direction of the current carrying means at the respective corresponding projections of each of the static magnetic field generation sources aligns alternatively in positive and negative direction on the first straight line, thereby, an open

[illegible]